

WE CLAIM:

1. A method for automatically generating a plurality of metamodel system files using a set of metamodel requirements derived from a metamodel system, comprising the  
5 steps of:  
    capturing from said metamodel system a set of metamodel requirements;  
    saving said captured set of metamodel requirements in at least one requirements spreadsheet;  
10     opening said at least one requirements spreadsheet for making accessible said captured set of metamodel requirements;  
    generating at least one each of an object type spreadsheet , a relationship type mark-up language  
15 spreadsheet, and a symbol type spreadsheet by applying a predetermined set of generation instructions to said at least one requirements spreadsheet;  
    generating from said specified object mark-up language spreadsheet file, relationship type mark-up language  
20 spreadsheet, and symbol XML spreadsheet a plurality of metamodel type files.
2. The method of Claim 1, further comprising the step of presenting said generated metamodel mark-up language files  
25 in real-time for dynamically reviewing and revising said at least one of said object type mark-up language spreadsheet, said relationship type mark-up language spreadsheet and said symbol type mark-up language spreadsheet.
3. The method of Claim 1, further comprising the step  
30 of opening said at least one requirements spreadsheet in a batch process.

4. The method of Claim 1, further comprising the step  
of presenting in said at least one each of an object type  
mark-up language spreadsheet a tabular form of a selected set  
5 of metamodel components.

5. The method of Claim 1, further comprising the step  
of generating said at least one object type mark-up language  
spreadsheet, said relationship type mark-up language  
10 spreadsheet, and said symbol type mark-up language  
spreadsheet from said at least one requirements spreadsheet  
using a plurality of embedded spreadsheet formulas.

6. The method of Claim 1, further comprising the step  
15 of generating said at least one object type mark-up language  
spreadsheet, relationship type mark-up language spreadsheet,  
and symbol type mark-up language spreadsheet from said at  
least one requirements spreadsheet using a plurality of  
Visual Basic generation instructions.

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7. The method of Claim 1, further comprising the step  
of generating a graphical representation of said capturing  
step.

25 8. The method of Claim 1, further comprising the step  
of generating a graphical representation of said step of  
generating at least one each of an object type mark-up  
language file, a relationship type file, and a symbol XML  
file by applying a predetermined set of macros to said at  
30 least one spreadsheet;

9. The method of Claim 1, further comprising the step of generating a graphical representation of said step of generating at least one each of an object type file, a relationship type file, and a symbol type file by applying a  
5 predetermined set of macros to said at least one requirements spreadsheet.

10. A system for automatically generating a plurality of metamodel system files using a set of metamodel  
10 requirements derived from a metamodel system, comprising the steps of:

instructions for capturing from said metamodel system a set of metamodel requirements;

15 instructions for saving said captured set of metamodel requirements in at least one requirements spreadsheet;

instructions for opening said at least one requirements spreadsheet for making accessible said captured set of metamodel requirements;

20 instructions for generating at least one each of an object type mark-up language spreadsheet, a relationship type mark-up language spreadsheet, and a symbol type mark-up language by applying a predetermined set of macros to said at least one requirements spreadsheet;

25 instructions for generating from said specified object type mark-up language spreadsheet, relationship type mark-up language spreadsheet, and symbol type mark-up language a plurality of metamodel mark-up language files.

11. The system of Claim 10, further comprising instructions for presenting said generated metamodel mark-up language files in real-time for dynamically reviewing and revising at least one of said object type mark-up language spreadsheet, said relationship type mark-up language spreadsheet and said symbol type mark-up language spreadsheet.

12. The system of Claim 10, further comprising instructions for opening said at least one requirements spreadsheet in a batch process.

13. The system of Claim 10, further comprising instructions for presenting, in said at least one each of an object type mark-up language spreadsheet a tabular form of a selected set of metamodel components.

14. The system of Claim 10, further comprising instructions for generating said at least one object type mark-up language spreadsheet, a relationship type mark-up language spreadsheet, and a symbol type mark-up language spreadsheet from said at least one requirements spreadsheet using a plurality of embedded spreadsheet formulas.

15. The system of Claim 10, further comprising instructions for generating said at least one each of an object type file, a relationship type file, and a symbol XML file from said at least one requirements spreadsheet using a plurality of Visual Basic generation instructions.

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16. The system of Claim 10, further comprising instructions for generating a graphical representation of said capturing instructions.

5        17. The system of Claim 10, further comprising instructions for generating a graphical representation of generating at least one each of an object type mark-up language spreadsheet, a relationship type mark-up language spreadsheet, and a symbol mark-up language spreadsheet by  
10 applying a predetermined set of macros to said at least one requirements spreadsheet;

18. A storage medium for a computer system comprising instructions for an automated metamodel system file generation system for generating a plurality of metamodel system files, said automated metamodel system file generation
- 5 system comprising:
- instructions for capturing from said metamodel system a set of metamodel requirements;
  - instructions for saving said captured set of metamodel requirements in at least one requirements
  - 10 spreadsheet;
  - instructions for opening said at least one requirements spreadsheet for making accessible said captured set of metamodel requirements;
  - instructions for generating at least one each of an
  - 15 object type mark-up language spreadsheet, a relationship type mark-up language spreadsheet, and a symbol type mark-up language by applying a predetermined set of macros to said at least one requirements spreadsheet;
  - instructions for generating from said specified
  - 20 object type mark-up language spreadsheet, relationship type mark-up language spreadsheet, and symbol type mark-up language a plurality of metamodel mark-up language files.
19. The storage medium of Claim 18, wherein said
- 25 storage medium comprises a plurality of individual associated storage device media.